

## CLAIMS

We claim:

1. A computer implemented method for facilitating trick mode playback for a user, comprising:
    - accessing a plurality of encoded digital video frames on a first computer system;
    - identifying a subset of said encoded digital video frames for compressed video encoding;
    - for all said identified encoded digital video frames, encoding an associated playback video frame;
    - downloading said encoded playback video frames on a second computer system;
    - streaming said encoded digital video frames to said second computer system;
    - decoding said digital video frames and said playback video frames;
    - if said user directs, incrementally playing said digital video frames or said playback video frames;
    - enabling said user to switch between playing said digital video frames and said playback video frames;
    - enabling said user to change location of playing said playback video frames; and
    - when switching from playing said playback video frames to playing said digital video frames, matching playing of said digital video frames with said location of playing said playback video frames.
  2. The method of Claim 1 further comprising said second computer system including a data server computer system and a client computer system.
  3. The method of Claim 1 further comprising said first computer system including an initiating computer system and a data server computer system.

1       4. The method of Claim 1 further comprising, when said user directs incrementally  
2       playing said playback video frames, enabling said user to direct playing of said playback  
3       video frames in either a forward direction or a reverse direction.

1       5. The method of Claim 1 further comprising:  
2             playing said digital video frames via a digital window on said second computer  
3                 system; and

4             playing said playback video frames via a preview window on said second computer  
5                 system.

1       6. The method of Claim 1 further comprising:  
2             playing said digital video frames via a digital window on said second computer  
3                 system; and

4             playing said playback video frames via overlaying a preview window on said digital  
5                 window.

6       7. A computer implemented method for facilitating fast audio playback for a user,  
7       comprising:

8             accessing a plurality of encoded digital audio frames on a first computer system;  
9             identifying a subset of said encoded digital audio frames for compressed audio  
10                 encoding;

11             for all said identified encoded digital audio frames, encoding an associated playback  
12                 audio frame;

13             downloading said encoded playback audio frames on a second computer system;  
14             streaming said encoded digital audio frames to said second computer system;

15             decoding said digital audio frames and said playback audio frames;

16             if said user directs, incrementally playing said digital audio frames or said playback  
17                 audio frames;

18             enabling said user to switch between playing said digital audio frames and said

14               playback audio frames;  
15               enabling said user to change location of playing said playback audio frames; and  
16               when switching from playing said playback audio frames to playing said digital audio  
17               frames, matching playing of said digital audio frames with said location of  
18               playing of said playback audio frames.

1       8. The method of Claim 7 further comprising said second computer system including a  
2       data server computer system and a client computer system.

1       9. The method of Claim 7 further comprising said first computer system including an  
2       initiating computer system and a data server computer system.

10. The method of Claim 7 further comprising:  
      playing said digital audio frames via a digital window on said second computer  
      system; and  
      playing said playback audio frames via a preview window on said second computer  
      system.

11. The method of Claim 10 further comprising:  
      associating audio attributes with said playback audio frames; and  
      representing said associated audio attributes on said preview window.

12. A computer implemented method for facilitating trick mode playback for a user,  
comprising:  
      accessing a plurality of encoded digital video frames and a plurality of encoded digital  
      audio frames on a first computer system;  
      identifying a subset of said encoded digital video frames for compressed video  
      encoding;  
      identifying a subset of said encoded digital audio frames for compressed audio

8               encoding;

9               for all said identified encoded digital video frames, encoding an associated playback  
10               video frame;

11               for all said identified encoded digital audio frames, encoding an associated playback  
12               audio frame;

13               downloading said encoded playback video frames and said encoded playback audio  
14               frames on a second computer system;

15               multiplexing said encoded digital video frames and said encoded digital audio frames  
16               on said first computer system;

17               streaming said multiplexed digital frames to said second computer system;

18               de-multiplexing said multiplexed digital frames;

19               decoding said encoded digital video frames, said encoded digital audio frames, said  
20               encoded playback video frames, and said encoded playback audio frames; and  
21               if said user directs:

22               synchronizing said digital video frames and said digital audio frames and  
23               playing said synchronized digital video frames and digital audio  
24               frames; or

25               synchronizing said playback video frames and said playback audio frames and  
26               playing said synchronized playback video frames and playback audio  
27               frames;

28               enabling said user to switch between playing said synchronized digital video frames  
29               and digital audio frames and said synchronized playback video frames and  
30               playback audio frames;

31               enabling said user to change location of playing said synchronized playback video  
32               frames and playback audio frames; and

33               when switching to playing said synchronized digital video frames and digital audio  
34               frames, matching playing of said synchronized digital video frames and digital  
35               audio frames with said location of playing of said synchronized playback  
36               video frames and playback audio frames.

1       13. The method of Claim 12 further comprising said second computer system including a  
2       data server computer system and a client computer system.

1       14. The method of Claim 12 further comprising said first computer system including an  
2       initiating computer system and a data server computer system.

1       15. The method of Claim 12 further comprising:

2              playing said synchronized digital video frames and digital audio frames via a digital  
3              window on said second computer system; and

4              playing said synchronized playback video frames and playback audio frames via a  
5              preview window on said second computer system.

16. The method of Claim 12 further comprising:

1              playing said synchronized digital video frames and digital audio frames via a digital  
2              window on said second computer system; and

3              playing said synchronized playback video frames and playback audio frames via  
4              overlaying a preview window on said digital window.

17. A computer implemented method for facilitating trick mode playback on a computer  
2       system for a user, comprising:

3              accessing a plurality of encoded digital video frames;

4              identifying a subset of said encoded digital video frames for compressed video  
5              encoding;

6              for all said identified encoded digital video frames, encoding an associated playback  
7              video frame;

8              downloading said encoded playback video frames on said computer system;

9              decoding said digital video frames and said playback video frames on said computer  
10             system;

11 if said user directs, incrementally playing said digital video frames or said playback  
12 video frames;  
13 enabling said user to switch between playing said digital video frames and said  
14 playback video frames;  
15 enabling said user to change location of playing said playback video frames; and  
16 when switching from playing said playback video frames to playing said digital video  
17 frames, matching playing of said digital video frames with said location of  
18 playing said playback video frames.

1 18. A computer implemented method for facilitating fast audio playback on a computer  
2 system for a user, comprising:

3 accessing a plurality of encoded digital audio frames;  
4 identifying a subset of said encoded digital audio frames for compressed audio  
5 encoding;  
6 for all said identified encoded digital audio frames, encoding an associated playback  
7 audio frame;  
8 downloading said encoded playback audio frames on said computer system;  
9 decoding said digital audio frames and said playback audio frames on said computer  
10 system;  
11 if said user directs, incrementally playing said digital audio frames or said playback  
12 audio frames;  
13 enabling said user to switch between playing said digital audio frames and said  
14 playback audio frames;  
15 enabling said user to change location of playing said playback audio frames; and  
16 when switching from playing said playback audio frames to playing said digital audio  
17 frames, matching playing of said digital audio frames with said location of  
18 playing of said playback audio frames.

1 19. An article of manufacture comprising a program storage medium readable by a

2 computer and embodying one or more instructions executable by said computer for  
3 causing a computer system to facilitate trick mode playback for a user, comprising:  
4 accessing a plurality of encoded digital video frames on a first computer system;  
5 identifying a subset of said encoded digital video frames for compressed video  
6 encoding;  
7 for all said identified encoded digital video frames, encoding an associated playback  
8 video frame;  
9 downloading said encoded playback video frames on a second computer system;  
10 streaming said encoded digital video frames to said second computer system;  
11 decoding said digital video frames and said playback video frames;  
12 if said user directs, incrementally playing said digital video frames or said playback  
13 video frames;  
14 enabling said user to switch between playing said digital video frames and said  
15 playback video frames;  
16 enabling said user to change location of playing said playback video frames; and  
17 when switching from playing said playback video frames to playing said digital video  
18 frames, matching playing of said digital video frames with said location of  
19 playing said playback video frames.

20. The article of manufacture of Claim 19 further comprising said second computer  
2 system including a data server computer system and a client computer system.

1 21. The article of manufacture of Claim 19 further comprising said first computer system  
2 including an initiating computer system and a data server computer system.

1 22. An article of manufacture comprising a program storage medium readable by a  
2 computer and embodying one or more instructions executable by said computer for  
3 causing a computer system to facilitate fast audio playback for a user, comprising:  
4 accessing a plurality of encoded digital audio frames on a first computer system;

5 identifying a subset of said encoded digital audio frames for compressed audio  
6 encoding;  
7 for all said identified encoded digital audio frames, encoding an associated playback  
8 audio frame;  
9 downloading said encoded playback audio frames on a second computer system;  
10 streaming said encoded digital audio frames to said second computer system;  
11 decoding said digital audio frames and said playback audio frames;  
12 if said user directs, incrementally playing said digital audio frames or said playback  
13 audio frames;  
14 enabling said user to switch between playing said digital audio frames and said  
15 playback audio frames;  
16 enabling said user to change location of playing said playback audio frames; and  
17 when switching from playing said playback audio frames to playing said digital audio  
18 frames, matching playing of said digital audio frames with said location of  
19 playing of said playback audio frames.

23. The method of Claim 22 further comprising said second computer system including a  
data server computer system and a client computer system.

24. The method of Claim 22 further comprising said first computer system including an  
initiating computer system and a data server computer system.

1 25. A computer system for facilitating trick mode playback for a user, comprising:  
2 a plurality of encoded digital video frames on a first said computer system;  
3 a subset of said encoded digital video frames that are identified for compressed video  
4 encoding;  
5 for all said identified encoded digital video frames, an associated encoded playback  
6 video frame;

said encoded playback video frames that are downloaded on a second said computer system;

said encoded digital video frames that are streamed to said second computer system;  
said digital video frames that are decoded from said encoded digital video frames;  
said playback video frames that are decoded from said encoded playback video  
frames;

while said user directs:

said digital video frames being incrementally played on said second computer system; or

said playback video frames being incrementally played on said second computer system;

a location of playing said playback video frames being changed by said user; and  
said location of playing facilitating synchronized playing of said digital video frames  
when said user directs playing said digital video frames after playing said  
playback video frames.

26. The computer system of Claim 25 further comprising said second computer system including a data server computer system and a client computer system.

27. The computer system of Claim 25 further comprising said first computer system including an initiating computer system and a data server computer system.

28. A computer system for facilitating fast audio playback for a user, comprising:

a plurality of encoded digital audio frames on a first said computer system;  
a subset of said encoded digital audio frames that are identified for compressed audio  
encoding;  
for all said identified encoded digital audio frames, an associated encoded playback  
audio frame;

said encoded playback audio frames that are downloaded on a second said computer system;

said encoded digital audio frames that are streamed to said second computer system; said digital audio frames that are decoded from said encoded digital audio frames; said playback audio frames that are decoded from said encoded playback audio frames;

while said user directs:

said digital audio frames being incrementally played on said second computer system; or

said playback audio frames being incrementally played on said second computer system;

a location of playing said playback audio frames being changed by said user; and  
said location of playing facilitating synchronized playing of said digital audio frames  
when said user directs playing said digital audio frames after playing said  
playback audio frames.

29. The computer system of Claim 28 further comprising said second computer system including a data server computer system and a client computer system.

30. The computer system of Claim 28 further comprising said first computer system including an initiating computer system and a data server computer system.